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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,176	01/24/2005	Yuuichi Murayama	101551.55779US	7682
23911 CROWELL & I	7590 10/23/200 MORING LLP	EXAMINER		
INTELLECTUAL PROPERTY GROUP			JAVANMARD, SAHAR	
P.O. BOX 14300 WASHINGTON, DC 20044-4300			ART UNIT	PAPER NUMBER
			1627	
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			10/23/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/520,176	MURAYAMA ET AL.		
Office Action Summary	Examiner	Art Unit		
	SAHAR JAVANMARD	1627		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE MAILING DOWN THE STATE OF THE MAILING DOWN THE STATE OF THE MAILING DOWN THE STATE OF THE MAILING THE MAILI	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>17 And</u> This action is FINAL . 2b) ☐ This Since this application is in condition for allowed closed in accordance with the practice under Expression in the Expression in the practice under Expression in the Expression	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1,3,4,6,7,9,13 and 15-19 is/are pending 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1, 3, 4, 6, 7, 9, 13, and 15-19 is/are r 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

DETAILED ACTION

Status of the Application

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 17, 2009 has been entered.

Claim(s) 1, 3, 4, 6, 7, 9, 13, and 15-19 are pending and are examined herein.

Response to Arguments

Applicant's arguments with respect to the 103(a) rejection of claims 1-9 and 13-19 as being unpatentable over Richardson (WO 96/21437) in view of Gordon (WO 00/64420) has been fully considered but is not persuasive.

Applicant argues that "neither of the references, either alone, or in the proposed combination, teaches or suggests the presently claimed methods of suppressing the proliferation of abnormal prion proteins through the claimed administration of certain amino acids to a patient who is in need of this therapy."

Examiner respectfully notes that the reason or motivation to modify a reference may often suggest what the inventor has done, but for a different purpose or to solve a different problem. It is not necessary that the prior art suggest the combination to

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achieve the same advantage or result discovered by applicant. While there must be motivation to make the claimed invention, there is no requirement that the prior art provide the same reason as the applicant to make the claimed invention. Furthermore, although Richardson does not specifically teach "a method of suppressing proliferation of abnormal prion proteins" with essential amino acids, the reference does teach treating abnormal movements in neurological disorders such as Creutzfeld-Jakob disease (CJD) and Hallervorden Spatz disease, well known in the art to be prion diseases. Therefore, it is Examiner's opinion that although it is not explicitly taught to suppress prion proteins, the same compositions are administered to treat disorders that are of prion origin, thus it will necessarily suppress the proliferation of abnormal prion proteins. Additionally, Applicant argues that Richardson teaches treating subject with TD symptoms (e.g. claim 1) and that CJD is in a laundry list of diseases. This argument is not persuasive. Richardson teaches treating TD by way of example however disorders such as CJD and Hallervorden Spatz disease are a part of the scope of the invention. Applicant refers to the list of diseases as "a laundry list", however, the list is not such that it would pose undue burden to one of ordinary skill in the art to employ the amino acid containing composition to treat disorders such as CJD and Hallervorden Spatz disease.

The rejection is hereby maintained for reasons of record yet modified in view of Applicant's amendments.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Richardson (WO 96/21437).

Examiner respectfully notes that no patentable weight is given for the "intended use" of a suppressive agent comprising the essential amino acids selected from the group consisting of leucine, isoleucine, valine and mixtures thereof as recited in claims 7 and 9. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Richardson teaches administration of isoleucine, leucine and/or valine to alleviate abnormal movement disorders (page 10, lines 13-20). Richardson teaches that the total amount of amino acids to be administered of valine, isoleucine and leucine is about 50 to 1500 mg/kg of body weight daily (page 41, lines 6-11), meeting the limitations of claims 7 and 9.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 4, 6, 13, and 15-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richardson (WO 96/21437) of record as applied to claims 7 and 9 in the 102(b) rejection above in view of Gordon (WO 00/64420) of record.

Richardson is discussed above.

Richardson teaches a method of remitting or attenuating the symptoms of abnormal movement disorders by administering a meal enriched with large neutral amino acids to patients suffering from these disorders (abstract, page 1, lines 1-3).

Richardson teaches a number of neurological disorders that are manifested by abnormal movements, including among many diseases, Creutzfeldt-Jacob disease (page 2, lines 22-33). Richardson further teaches that branched chain amino acids or aromatic acids are administered to alleviate abnormal movement disorders in particular isoleucine, leucine, and valine (page 10, lines 13-21; page 25, example 2; claims).

As discussed above, Richardson teaches that the total amount of amino acids to be administered of valine, isoleucine and leucine is about 50 to 1500 mg/kg of body weight daily (page 41, lines 6-11).

Additionally, Richardson teaches that the branched amino acids can be administered in the form of various pharmaceutical preparations such as tablets, capsules, flavored bars, suspensions, and emulsions (page 41, lines 11-15).

Richardson does not teach neurodegenerative diseases such as scrapie, bovine spongiform encephalitis, and Gertsmann-Straussler-Scheinker syndrome. Furthermore, Richardson is silent on suppressing the proliferation of abnormal prion proteins.

Gordon teaches that neurodegenerative disease Creutzfeldt-Jakob disease is characterized by the appearance and accumulation of a protein-resistant form of a prion protein in the central nervous system (page 1, lines 25-30) in addition to other neurodegenerative diseases including scrapie, bovine spongiform encephalitis, and Gertsmann-Straussler-Scheinker syndrome (page 23, lines 10-12).

It would have been obvious to one of ordinary skill in the art at the time of the invention to have administered a meal enriched with large neutral amino acids to patients suffering from disorders such as Creutzfeldt-Jacob disease as taught by Richardson as a method for suppressing the proliferation of abnormal prion proteins.

One would be motivated to do so because Richardson teaches treating Creutzfeldt-Jakob disease, a disease that, according to Gordon, is characterized by the appearance and accumulation of a protein-resistant form of a prion protein. Thus it would be obvious

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that by administering to a patient essential amino acids to treat Creutzfeldt-Jacob disease as taught by Richardson, one would also be suppressing the proliferation of prion proteins. Although Richardson does not explicitly teach the suppression of prion proteins, the same compositions are administered to treat disorders that are of prion origin, thus it would be obvious to one of ordinary skill in the art to it that it will necessarily suppress the proliferation of abnormal prion proteins. "[T]he discovery of a previously unappreciated property of a prior art composition, or of a scientific explanation for the prior art's functioning, does not render the old composition patentably new to the discoverer." *Atlas Powder Co. v. Ireco Inc.*, 190 F.3d 1342, 1347, 51 USPQ2d 1943, 1947 (Fed. Cir. 1999). Thus the claiming of a new use, new function or unknown property which is inherently present in the prior art does not necessarily make the claim patentable. *In re Best*, 562 F.2d 1252, 1254, 195 USPQ 430, 433 (CCPA 1977).

Furthermore, applying the same rationale, one would expect that diseases such as scrapie, bovine spongiform encephalitis, and Gertsmann-Straussler-Scheinker syndrome as taught by Richardson would also be treated by administering a meal enriched with large neutral amino acids to treat the suppression of abnormal protein prion proliferation because all of these neurodegenerative diseases are characterized by the appearance and accumulation of a protein-resistant form of a prion protein in the central nervous system and it is reasonable to treat diseases that have similar characteristics with similar forms of treatment.

Conclusion

Claims 1, 3, 4, 6, 7, 9, 13, and 15-19 are not allowed.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SAHAR JAVANMARD whose telephone number is (571) 270-3280. The examiner can normally be reached on 8 AM-5 PM MON-FRI (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on (571) 272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/S. J./ Examiner, Art Unit 1627

/Shengjun Wang/ Primary Examiner, Art Unit 1627